13 Rec'd PCT/PTO 9 NOV 2001
10/019864

FORM PTO-1390 (REV. 11-2000) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER: 520.1005

U.S. APPLICATION NO. (If known, see 37 CFR 1.5):

INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/EP00/04071	6 May 2000	11 May 1999

TITLE OF INVENTION: METHOD FOR ESTABLISHING A CONNECTION IN A TELECOMMUNICATIONS NETWORK

APPLICANT(S) FOR DO/EO/US: Ulrich BITTROFF et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. [X] This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. [ ] This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. [X] This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. [ ] The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. [X] A copy of the International Application as filed (35 U.S.C. 371(c)(2))
   a. [X] is attached hereto (required only if not communicated by the International Bureau).
   b. [ ] has been communicated by the International Bureau.
   c. [ ] is not required, as the application was filed in the United States Receiving Office (RO/US).
6. [X] An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
   a. [X] is attached hereto.
   b. [ ] has been previously submitted under 35 U.S.C. 154(d)(4).
7. [X] Amendments to the claims of the International Aplication under PCT Article 19 (35 U.S.C. 371(c)(3))
   a. [ ] are attached hereto (required only if not communicated by the International Bureau).
   b. [ ] have been communicated by the International Bureau.
   c. [ ] have not been made; however, the time limit for making such amendments has NOT expired.
   d. [X] have not been made and will not be made.
8. [ ] An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. [X] An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). unsigned .
10. [ ] An English lanugage translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. [X] An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. [ ] An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. [X] A FIRST preliminary amendment.
14. [ ] A SECOND or SUBSEQUENT preliminary amendment.
15. [ ] A substitute specification.
16. [ ] A change of power of attorney and/or address letter.
17. [ ] A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. [ ] A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. [ ] A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. [X] Other items or information: Letter re: Priority

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER

21. ☐ The following fees are submitted:	CALCULATIONS PTO USE ONLY	
BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):		
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO **$1000.00**		
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO **$860.00**		
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO **$710.00**		
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) **$690.00**		
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) **$100.00**		
ENTER APPROPRIATE BASIC FEE AMOUNT =	$ 860.00	
Surcharge of **$130.00** for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492(e)).	$	

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	28 - 20 =	8	x **$18.00**	$ 144.00	
Independent claims	1 - 3 =		x **$80.00**	$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ **$270.00**	$	
TOTAL OF ABOVE CALCULATIONS =				$ 1,004.00	
☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. +				$	
SUBTOTAL =				$ 1,004.00	
Processing fee of **$130.00** for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				$	
TOTAL NATIONAL FEE =				$ 1,004.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **$40.00** per property +				$	
TOTAL FEES ENCLOSED =				$ 1,004.00	
				Amount to be refunded:	$
				charged:	$

a. ☒ A check in the amount of $ 1,004.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of $ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0552 . A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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485 Seventh Avenue, 14th Floor
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23280
PATENT TRADEMARK OFFICE

SIGNATURE

William C. Gehris
NAME

38,156
REGISTRATION NUMBER

10019864 JC05 10/019864
531 Rec'd PCT/PTO 09 NOV 2001

[520.1005]

UNITED STATES PATENT AND TRADEMARK OFFICE

Re:	Application of:	Ulrich BITTROFF et al.
	Serial No.:	To Be Assigned
	International Application No.:	PCT/EP00/04071
	Filed:	Herewith
	For:	METHOD FOR ESTABLISHING A CONNECTION IN A TELECOMMUNICATIONS NETWORK

BOX PCT
Asst. Commissioner for Patents
Washington, D.C. 20231

November 9, 2001

PRELIMINARY AMENDMENT

Sir:

Applicants request that the following Amendments be made in the above-identified matter prior to examination thereof:

IN THE SPECIFICATION

Before paragraph [0001], please insert the heading --BACKGROUND--.

Please amend paragraph [0002] as follows:

[0002] A request for a call typically involves the disclosure of one's own telephone number. In the case of newspaper advertisements, a way out presents itself via a box number, or code number, which, however, prevents an immediate contact of the interested party with the advertiser, resulting in delays. Moreover, the interested party then has to express himself/herself in writing. However, if the telephone number is indicated in a newspaper advertisement, then it is generally possible to identify the owner of the telephone number via electronic data bases which allow a number search, resulting in the possibility of abuse. Thus, for instance, a public

offer of selling a precious object may attract burglars. The possibility of publishing an advertisement under a box number has to be completely ruled out for some publications such as in the case of pin walls with private announcements in stores or schools.

Page 1, before paragraph [0003] please insert the heading --SUMMARY OF THE INVENTION--.

Please amend paragraph [0003] as follows:

[0003] Therefore, an object of the present invention is to provide the capability for a subscriber of a telecommunications network to be called without the caller knowing the subscriber's telephone number, hereinafter also referred to as permanent identifier.

Page 1, please insert paragraph [0003.1] as follows:

--[0003.1] The present invention provides a method for establishing a connection from an initiating subscriber to a destination subscriber in a telecommunications network without the initiating subscriber knowing a permanent identifier of the destination subscriber. The method includes assigning a first anonymous identifier to the permanent identifier of the destination subscriber using a trust center. The first anonymous identifier is recognized as an anonymous identifier and the first anonymous identifier is routed to the trust center using an associated active switching center. The permanent identifier of the destination subscriber is determined from the routed first anonymous identifier and the determined permanent identifier is transmitted to the switching center using the trust center. The connection to the destination subscriber is established using the transmitted permanent identifier and the switching center.--.

Please delete paragraph [0004].

Please amend paragraph [0006] as follows:

[0006] In an embodiment of the method according to the present invention the trust center includes a code server in conjunction with a service control function of the telecommunications network which is at least partially designed as an intelligent network, and in that the routing of the anonymous identifier from the switching center and the transmission of the permanent identifier to the switching center take place via a service switching function of the intelligent network.

Please amend paragraph [0007] as follows:

[0007] To limit the stock of numbers which has to be kept ready for the anonymous identifier, it is provided according to an embodiment to delete the anonymous identifier at a predetermined time after the assignment. In an embodiment of the method according to the present invention, the predetermined time will be established in accordance with the period of time within which the destination subscriber will still expect calls after his/her publication, for example, the advertisement, such as, for example, one or two weeks. Due to this time limitation of the anonymous identifier, moreover, an insignificant interest in an unauthorized intrusion into the trust center is to be expected so that simple protective measures are sufficient, if indicated.

Please amend paragraph [0009] as follows:

[0009] In an embodiment of the present invention a permanent identifier can be assigned only one anonymous identifier at a time. In this manner, an abusive extension of the assignment of anonymous identifiers is prevented.

Please amend paragraph [0010] as follows:

[0010] In an embodiment of the present invention, provision is made for an authorization check to be carried out before the trust center assigns the anonymous identifier. This check can prevent, for example, an unauthorized person from generating an anonymous identifier for a call number.

Please amend paragraph [0012] as follows:

[0012] According to an embodiment of the present invention, a user-friendly assignment of the anonymous identifier can be effected in that the request for the assignment of the anonymous identifier and the communication thereof take place over the internet. Consequently, the user can be advantageously guided via suitable graphical user interfaces, information and entries complementing one another in an expedient manner.

Please amend paragraph [0020] as follows:

[0020] In an embodiment of the present invention, provision is made for the destination subscriber to be informed of this fact by a perceivable signaling when a return call is established using the anonymous identifier. It is then possible for the destination subscriber to adapt his/her behavior, in particular, to accept or reject the return call.

Please amend paragraph [0021] as follows:

[0021] In another embodiment of the present invention a return call between the initiating subscriber and the destination subscriber can also be achieved in that a connection requested by the initiating subscriber is automatically established from the destination subscriber upon completion of the signaling after the destination subscriber has confirmed that a connection is to be established, the connection being automatically effected from the destination subscriber to the initiating subscriber.

Please amend paragraph [0025] as follows:

[0025] To allow the code server to be identified, an embodiment of the present invention provides for an identifier which identifies the code server to be added to the anonymous identifier.

Before paragraph [0029], please insert the heading --BRIEF DESCRIPTION OF THE DRAWINGS--.

Please amend paragraph [0029] as follows:

[0029] Further details and advantages of the present invention will become apparent in the following description based on exemplary embodiments, with reference to the drawings.

Before paragraph [0032], please insert the heading --DETAILED DESCRIPTION--.

Page 12, first line change "What is claimed is" to --WHAT IS CLAIMED IS--.

IN THE CLAIMS:

Please cancel claims 1-28 as presented in the underlying International Application No. PCT/EP00/04071 and add new claims 29-56 as follows:

--29. (new) A method for establishing a connection from an initiating subscriber to a destination subscriber in a telecommunications network without the initiating subscriber knowing a permanent identifier of the destination subscriber, the method comprising:

assigning a first anonymous identifier to the permanent identifier of the destination subscriber using a trust center;

recognizing the first anonymous identifier as an anonymous identifier and routing the first anonymous identifier to the trust center using an associated active switching center;

determining the permanent identifier of the destination subscriber from the routed first anonymous identifier and transmitting the determined permanent identifier to the switching center using the trust center; and

establishing the connection to the destination subscriber using the transmitted permanent identifier and the switching center.

30. (new) The method as recited in claim 29 wherein the trust center includes a code server and a service control function of the telecommunications network, the telecommunications network includes an intelligent network, and wherein the routing the anonymous identifier using the switching center and the transmitting the determined permanent identifier to the switching center are performed using a service switching function of the intelligent network.

31. (new) The method as recited in claim 29 further comprising deleting the first anonymous identifier at a predetermined time after the assigning.

32. (new) The method as recited in claim 29 wherein the first anonymous identifier is capable of being deleted by an input of the destination subscriber.

33. (new) The method as recited in claim 29 wherein the permanent identifier of the destination subscriber is capable of being assigned only one anonymous identifier at a time.

34. (new) The method as recited in 33 further comprising performing an authorization check before the assigning of the first anonymous identifier.

35. (new) The method as recited in claim 33 further comprising outputting an error message using the trust center when an assignment is not possible.

36. (new) The method as recited in claim 29 further comprising requesting the assignment of the first anonymous identifier and communicating the assignment of the first anonymous identifier using the Internet.

37. (new) The method as recited in claim 29 further comprising requesting the assignment of the first anonymous identifier and communicating the assignment of the first anonymous identifier, at least one of the requesting and the communicating being performed using a data transmission from the destination subscriber via a digital connection.

38. (new) The method as recited in claim 37 wherein the digital connection includes an ISDN D-channel.

39. (new) The method as recited in claim 29 further comprising requesting the assignment of the first anonymous identifier and communicating the assignment of the first anonymous identifier, at least one of the requesting and the communicating being performed using a data transmission from the destination subscriber using a multifrequency method.

40. (new) The method as recited in claim 29 further comprising requesting the assignment of the first anonymous identifier and communicating the assignment of the first anonymous identifier, at least one of the requesting and the communicating being performed using a data transmission including a short message.

41. (new) The method as recited in claim 29 further comprising requesting the assignment of the first anonymous identifier and communicating the assignment of the first anonymous identifier, at least one of the requesting and the communicating being performed using a data transmission including electronic mail.

42. (new) The method as recited in claim 29 further comprising requesting the assignment of the first anonymous identifier and communicating the assignment of the first anonymous identifier, at least one of the requesting and the communicating being performed using voice input and voice output.

43. (new) The method as recited in claim 29 further comprising requesting the assignment of the first anonymous identifier using an input of the destination subscriber.

44. (new) The method as recited in claim 29 further comprising:

requesting the assignment of the first anonymous identifier using a dialing by the destination subscriber of a permanent identifier of the initiating subscriber; and

transmitting the first anonymous identifier to the initiating subscriber.

45. (new) The method as recited in claim 44 wherein the connection to the destination subscriber is performed after a termination of a connection to the initiating subscriber started by the destination subscriber, and wherein the determining the permanent identifier of the destination subscriber is performed in response to a request of the initiating subscriber

46. (new) The method as recited in claim 45 wherein the connection to the destination subscriber is one of a plurality of connections to the destination subscriber, an establishing of each of the plurality of connections to the destination subscriber being performed after a termination of a respective connection to the initiating subscriber started by the destination subscriber and wherein the assigning the first anonymous identifier is performed anew for an establishing of each of the respective connection to the initiating subscriber.

47. (new) The method as recited in claim 29 wherein the connection to the destination subscriber is a return call and further comprising informing the destination subscriber, using a perceivable signaling, that the return call is being established using an anonymous identifier.

48. (new) The method as recited in claim 47 further comprising:

requesting the connection to the destination subscriber using the initiating subscriber; and

confirming, using the destination subscriber, that the connection is to be established;

the establishing the connection being automatically performed upon a completion of the perceivable signaling after the confirming.

49. (new) The method as recited in claim 45 further comprising:

transmitting the permanent identifier of the destination subscriber to a code server of the trust center;

storing the assigned first anonymous identifier with the permanent identifier of the destination subscriber for a period of validity;

outputting the first anonymous identifier using the code server; and

transmitting the first anonymous identifier to the initiating subscriber;

the assigning the first anonymous identifier being performed using the code server.

50. (new) The method as recited in claim 49 wherein:

the routing the first anonymous identifier to the trust center is performed so as to transmit the first anonymous identifier to the code server; and

the determining the permanent identifier of the destination subscriber is performed so as to retrieve the permanent identifier using the coder server and using the stored assigned first anonymous identifier and permanent identifier of the destination subscriber;

and further comprising outputting the determined permanent identifier of the destination subscriber using the code server.

51. (new) The method as recited in claim 45 further comprising:

routing the permanent identifier of the destination subscriber to a service control function of the trust center using the switching center;

indicating the permanent identifier of the destination subscriber and obtaining the assigned first anonymous identifier from a coder server of the trust center using the service control function;

routing the first anonymous identifier to the switching center using the service control function;

establishing the connection to the initiating subscriber and indicating the first anonymous identifier using the switching center;

storing the assigned first anonymous identifier with the permanent identifier of the destination subscriber for a period of validity; and

outputting the first anonymous identifier to the service control function using the code server;

wherein the assigning the first anonymous identifier to the permanent identifier of the destination subscriber using the trust center is performed using the code server.

52. (new) The method as recited in claim 51 further comprising adding a code server identifier to the first anonymous identifier.

53. (new) The method as recited in claim 51 wherein:

the connection to the destination subscriber is a return call;

the routing the first anonymous identifier to the trust center is performed so as to rout the first anonymous identifier to a service control function of the trust center using the switching center;

the determining the permanent identifier of the destination subscriber is performed so as to indicate the first anonymous identifier and obtain the permanent identifier from a code server of the trust center using the service control function; and

the transmitting the determined permanent identifier of the destination subscriber is performed so as to rout the determined permanent identifier to the switching center using the service control function.

54. (new) The method as recited in claim 29 wherein the telecommunications network includes a circuit-switched network for at least one of voice and data transmission and wherein at least one of the permanent identifier of the destination subscriber and the first anonymous identifier includes a respective telephone number.

55. (new) The method as recited in claim 29 wherein the first anonymous identifier includes a first telephone number, the first telephone number including a dialing prefix for dialing up the trust center.

56. (new) The method as recited in claim 29 wherein the telecommunications network includes a network for transmitting data including at least one of video data, audio data and textual messages and wherein at least one of the permanent identifier of the destination

subscriber and the first anonymous identifier includes a respective user address of the telecommunications network.--.

IN THE ABSTRACT

Please replace the abstract of record with the following new abstract:

--A method for establishing a connection from an initiating subscriber to a designated subscriber in a telecommunications network without providing the respective initiating subscriber with the permanent identifier of the designated subscriber includes assigning an anonymous identifier to the permanent identifier of the designated subscriber using a trust center. In order to establish the connection via the initiating subscriber while using the anonymous identifier, the anonymous identifier is recognized by an active switching center as an anonymous identifier and routed to the trust center. The trust center determines the assigned permanent identifier from the routed anonymous identifier and transmits the permanent identifier to the switching center. The switching center establishes the connection to the designated subscriber using the transmitted permanent identifier. The anonymous identifier may also be transmitted for a future return call to a called subscriber.--.

REMARKS

It is respectfully submitted that no new matter has been added.

Applicants believe that no fees are due as a result of this amendment. In the event of a fee discrepancy, please charge our Deposit Account No. 50-0552.

Respectfully submitted,

DAVIDSON, DAVIDSON & KAPPEL, LLC

By: _____
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"Express Mail" mailing label no.: EL 914492477 US
Date of deposit: November 9, 2001
I hereby certify that this correspondence and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above in an envelope addressed to "Commissioner of Patents and Trademarks, Washington, DC 20231"

DAVIDSON, DAVIDSON & KAPPEL, LLC

BY: _____
Samuel Gomez

[redacted]

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531 Rec'd PCT 09 NOV 2001

Application of: Ulrich BITTROFF et al. [520.1005]

International Application No. PCT/EP00/04071

Filed Herewith

VERSION OF SPECIFICATION AND CLAIMS AMENDMENTS

WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Page 1, paragraph [0002]:

[0002] A request for a call [inevitably] typically involves the disclosure of one's own telephone number. In the case of newspaper advertisements, a way out presents itself [mostly] via a box number, or code number, which, however, prevents an immediate contact of the interested party with the advertiser, resulting in delays. Moreover, the interested party then has to express himself/herself in writing. However, if the telephone number is indicated in a newspaper advertisement, then it is [mostly] generally possible to identify the owner of the telephone number via electronic data bases which allow a number search, resulting in the possibility of abuse. Thus, for instance, a public offer of selling a precious object may attract burglars. The possibility of publishing an advertisement under a box number has to be completely ruled out for some publications such as in the case of pin walls with private announcements in stores or schools.

Page 1, paragraph [0003]:

[0003] Therefore, [the] an object of the present invention is to [open to] provide the capability for a subscriber of a telecommunications network [the possibility of being] to be called without the caller knowing [his/her] the subscriber's telephone number, hereinafter also referred to as permanent identifier.

Page 2, paragraph [0006]:

[0006] [An advantageous] In an embodiment of the method according to the present invention [consists in that] the trust center [is constituted by] includes a code server in conjunction with a service control function of the telecommunications network which is at least partially designed as an intelligent network, and in that the routing of the anonymous identifier from the switching center and the transmission of the permanent identifier to the switching center take place via a service switching function of the intelligent network.

Page 2, paragraph [0007]:

[0007] To limit the stock of numbers which has to be kept ready for the anonymous identifier, it is provided according to [a refinement] an embodiment to delete the anonymous identifier at a predetermined time after the assignment. In [a practical application] an embodiment of the method according to the present invention, the predetermined time will be established in accordance with the period of time within which the destination subscriber will still expect calls after his/her publication, for example, the advertisement, such as, for example, one or two weeks. Due to this time limitation of the anonymous identifier, moreover, an insignificant interest in an unauthorized intrusion into the trust center is to be expected so that simple protective measures are sufficient, if indicated.

Page 3, paragraph [0009]:

[0009] [Another beneficial] In an embodiment of the present invention [consists in that] a permanent identifier can be assigned only one anonymous identifier at a time. In this manner, an abusive extension of the assignment of anonymous identifiers is prevented.

Page 3, paragraph [0010]:

[0010] In an [expedient] embodiment of the present invention, provision is made for an authorization check to be carried out before the trust center assigns the anonymous identifier. This check can prevent, for example, an unauthorized person from generating an anonymous identifier for a call number.

Page 3, paragraph [0012]:

[0012] According to an [advantageous] embodiment of the present invention, a user-friendly assignment of the anonymous identifier can be effected in that the request for the assignment of the anonymous identifier and the communication thereof take place over the internet. Consequently, the user can be advantageously guided via suitable graphical user interfaces, information and entries complementing one another in an expedient manner.

Page 5, paragraph [0020]:

[0020] In [a refinement] an embodiment of the present invention, provision is made for the destination subscriber to be informed of this fact by a perceivable signaling when a return call is established using the anonymous identifier. It is then possible for the destination subscriber to adapt his/her behavior, in particular, to accept or reject the return call.

Page 5, paragraph [0021]:

[0021] In [a further refinement of this specific embodiment,] another embodiment of the present invention a return call between the initiating subscriber and the destination subscriber can also be achieved in that a connection requested by the initiating subscriber is automatically established from the destination subscriber upon completion of the signaling after the destination subscriber has confirmed that a connection is to be established, the connection being automatically effected from the destination subscriber to the initiating subscriber.

Page 6, paragraph [0025]:

[0025] To allow the code server to be identified, [another refinement] an embodiment of the present invention [makes provision] provides for an identifier which identifies the code server to be added to the anonymous identifier.

Page 7, paragraph [0029]:

[0029] [Exemplary embodiments of the present invention are depicted in the drawing with reference to several Figures and will be explained in greater detail in the following description.] Further details and advantages of the present invention will become apparent in the following description based on exemplary embodiments, with reference to the drawings.

[redacted]

Page 12 first line : --WHAT IS CLAIMED IS-- [What is claimed is].

3/PRTS

10/019864
531 Rec'd PCT/ 09 NOV 2001

[520.1005]

METHOD FOR ESTABLISHING A CONNECTION IN A TELECOMMUNICATIONS NETWORK

[0001] The present invention relates to a method for establishing a connection from an initiating subscriber to a destination subscriber in a telecommunications network without the respective initiating subscriber knowing the permanent identifier of the destination subscriber.

[0002] A request for a call inevitably involves the disclosure of one's own telephone number. In the case of newspaper advertisements, a way out presents itself mostly via a box number which, however, prevents an immediate contact of the interested party with the advertiser, resulting in delays. Moreover, the interested party then has to express himself/herself in writing. However, if the telephone number is indicated in a newspaper advertisement, then it is mostly possible to identify the owner of the telephone number via electronic data bases which allow a number search, resulting in the possibility of abuse. Thus, for instance, a public offer of selling a precious object may attract burglars. The possibility of publishing an advertisement under a box number has to be completely ruled out for some publications such as in the case of pin walls with private announcements in stores or schools.

[0003] Therefore, the object of the present invention is to open to a subscriber of a telecommunications network the possibility of being called without the caller knowing his/her telephone number, hereinafter also referred to as permanent identifier.

[0004] This objective is achieved according to the present invention

- in that an anonymous identifier is assigned to the permanent identifier of the destination subscriber by a confidence instance,
- in that, for establishing the connection via the initiating subscriber while using the anonymous identifier, the utilized identifier is recognized by the particular active switching center as an anonymous identifier and routed to the confidence instance,
- in that the confidence instance determines the assigned permanent identifier from the

received anonymous identifier and transmits it to the switching center,

- in that the switching center proceeds to establish the connection to the destination subscriber while using the transmitted permanent identifier.

[0005] Although a first field of application of the method according to the present invention is telephony, the use in other telecommunications networks, in particular data networks, is not to be excluded.

[0006] An advantageous embodiment of the method according to the present invention consists in that the confidence instance is constituted by a code server in conjunction with a service control function of the telecommunications network which is at least partially designed as an intelligent network, and in that the routing of the anonymous identifier from the switching center and the transmission of the permanent identifier to the switching center take place via a service switching function of the intelligent network.

[0007] To limit the stock of numbers which has to be kept ready for the anonymous identifier, it is provided according to a refinement to delete the anonymous identifier at a predetermined time after the assignment. In a practical application of the method according to the present invention, the predetermined time will be established in accordance with the period of time within which the destination subscriber will still expect calls after his/her publication, for example, the advertisement, such as, for example, one or two weeks. Due to this time limitation of the anonymous identifier, moreover, an insignificant interest in an unauthorized intrusion into the confidence instance is to be expected so that simple protective measures are sufficient, if indicated.

[0008] In the method according to the present invention, moreover, provision can be made for the anonymous identifier to be deletable by an input of the destination subscriber. In this manner, it is possible, for example, to prevent the destination subscriber from receiving further calls concerning an advertised object after it has been sold. The deletion of the code can be indicated to further callers by an appropriate spoken message.

[0009] Another beneficial embodiment of the present invention consists in that a permanent identifier can be assigned only one anonymous identifier at a time. In this manner, an abusive extension of the assignment of anonymous identifiers is prevented.

[0010] In an expedient embodiment of the present invention, provision is made for an authorization check to be carried out before the confidence instance assigns the anonymous identifier. This check can prevent, for example, an unauthorized person from generating an anonymous identifier for a call number.

[0011] Moreover, provision can be made for the confidence instance to output error messages when an assignment is not possible. Such error messages can say:

- an anonymous identifier already exists for the entered call number,
- the entered call number was not correct,
- the request could not be carried out due to a system error.

[0012] According to an advantageous embodiment of the present invention, a user-friendly assignment of the anonymous identifier can be effected in that the request for the assignment of the anonymous identifier and the communication thereof take place over the internet. Consequently, the user can be advantageously guided via suitable graphical user interfaces, information and entries complementing one another in an expedient manner.

[0013] Further ways to request the assignment of the anonymous identifier and to communicate it to the destination subscriber are, in the ISDN, preferably via the D-channel or, in the case of other digital subscriber lines via suitable channels, in analog and also digital networks via the multifrequency method, by short messages (SMS), electronic mail (E-mail), and via voice input and output. Depending on the individual conditions, it is also possible to use mixed forms such as requesting by means of transmission via the multifrequency method and communication via voice output, which allows the use of a simple telephone with an analog subscriber line.

[0014] When using the method according to the present invention for the applications mentioned at the outset, the method is preferably designed in such a manner that the assignment is requested by an input of the destination subscriber. It is then completely up to the destination subscriber whether he/she wants to use an anonymous identifier, hereinafter also referred to as code.

[0015] In modern telephone networks, the call number of the calling subscriber is automatically transmitted to the called subscriber. For legal provisions on data security and privacy, a calling subscriber has the possibility of suppressing the transmission of his/her own call number to the called subscriber. Because of this, the called subscriber will later not be able to call back the caller unless he/she knows the call number of the caller anyway.

[0016] In some cases, however, it can be desirable for both subscribers that such a return connection can be established on request of the called subscriber without the calling subscriber disclosing his/her call number.

[0017] A further embodiment of the present invention makes this possible in that the request for the assignment between the anonymous and the permanent identifiers takes place during the dialing of a permanent identifier of a later initiating subscriber by the destination subscriber, and in that the anonymous identifier is transmitted to the later initiating subscriber. This procedure can be started by the destination subscriber by entering an appropriate prefix.

[0018] The return connection is then preferably established in that the anonymous identifier is converted by the confidence instance into the permanent identifier of the destination subscriber upon request of the initiating subscriber, and in that the return connection to the destination subscriber is established using the permanent identifier.

[0019] This embodiment of the present invention allows a subscriber to receive return calls

while keeping his/her anonymity. For instance, in the case of psychological counseling telephone services, the necessity can arise to provide comprehensive, qualified counsel by way of a return call without having to remove the anonymity of the caller. Another application case can be the query of a data base. In spite of the telephonic transmission of the query results by means of a return call, no conclusions about the inquiring person are possible.

[0020] In a refinement of the present invention, provision is made for the destination subscriber to be informed of this fact by a perceivable signaling when a return call is established using the anonymous identifier. It is then possible for the destination subscriber to adapt his/her behavior, in particular, to accept or reject the return call.

[0021] In a further refinement of this specific embodiment, a return call between the initiating subscriber and the destination subscriber can also be achieved in that a connection requested by the initiating subscriber is automatically established from the destination subscriber upon completion of the signaling after the destination subscriber has confirmed that a connection is to be established, the connection being automatically effected from the destination subscriber to the initiating subscriber.

[0022] The conversion of the permanent identifier of the destination subscriber into the anonymous identifier can be effected in that the permanent identifier is transmitted to a code server linked to the network, in that the code server converts the permanent identifier into a free anonymous identifier and stores the anonymous identifier for the period of validity thereof with the permanent identifier being assigned thereto, and in that the code server outputs the anonymous identifier which is transmitted to the initiating subscriber.

[0023] The conversion of the anonymous identifier of the destination subscriber into the permanent identifier for the purpose of the return call can be effected in that the anonymous identifier is transmitted to the code server, and in that the code server, by way of the stored assignments, retrieves and outputs the permanent identifier.

[520.1005]

[0024] The establishment of an anonymous connection between the destination subscriber and a called initiating subscriber can be carried out in that the identifier of the destination subscriber is routed to a service control function by an appropriate switching center, in that the service control function obtains an anonymous identifier from a code server while indicating the identifier of the destination subscriber, in that the code server converts the identifier into a free anonymous identifier and stores the anonymous identifier for the period of validity thereof with the permanent identifier being assigned thereto and outputs the anonymous identifier to the service control function, in that the service control function routes the anonymous identifier to the switching center,and in that the switching center establishes the connection with the called initiating subscriber while indicating the anonymous identifier.

[0025] To allow the code server to be identified, another refinement of the present invention makes provision for an identifier which identifies the code server to be added to the anonymous identifier.

[0026] The establishment of a connection-back between the initiating subscriber and the destination subscriber can be carried out in that the anonymous identifier of the destination subscriber is routed to a service control function by an appropriate switching center of the network, in that the service control function obtains the permanent identifier of the destination subscriber from the appropriate code server while indicating the anonymous identifier, in that the service control function routes this identifier to the switching center, and in that the switching center establishes the connection with the destination subscriber.

[0027] The method according to the present invention can advantageously be used in such a manner that the telecommunications network is a circuit-switched network for voice or data transmission, and that the identifiers are telephone numbers. In this connection, preferably, provision is made for the anonymous telephone number to include a dialing prefix for dialing up the confidence instance.

[520.1005]

[0028] Other applications can consist in that the telecommunications network is a network for transmitting data of any kind, including video and audio data and/or textual messages and in that the identifiers are user addresses of this network.

[0029] Exemplary embodiments of the present invention are depicted in the drawing with reference to several Figures and will be explained in greater detail in the following description.

[0030] Fig. 1 shows a schematic representation of a first embodiment of the present invention,

Fig. 2 depicts a flow chart on the assignment of the anonymous identifier in accordance with the method according to the present invention,

Fig. 3 represents a flow chart on the establishment of a connection in accordance with the method according to the present invention,

Fig. 4 shows a schematic representation to illustrate a second embodiment of the present invention,

Fig. 5 is a flow chart on the establishment of a forward connection,

Fig. 6 shows a flow chart on the establishment of a return connection according to the second embodiment, and

Fig. 7 depicts a flow chart on the communication in an electronic news system in accordance with the method according to the present invention.

[0031] In the Figures, identical parts are provided with the same reference symbols.

[520.1005]

[0032] Fig. 1 shows an intelligent network 1, for example a digital network with a digital subscriber line, of which are represented an individual switching center V having a switching unit 2, a subscriber line group 3, and a service switching function 4 (conforming to ITU-T Q.1211) for coupling the intelligent network to the distributed switched network as well as a service control function S and a code server C which is constituted by a computer which carries out the conversion of the anonymous identifies into permanent identifiers and vice versa and which stores the assignments of the identifiers to the subscribers in a data base. In the example, two subscriber lines A and B are linked to the same switching center V. Numerous switching centers exist in the network. In the event that two subscribers to be connected are not linked to the same switching center, the processes described in the following take place analogously.

[0033] Moreover, user U of subscriber line B possesses a terminal T, for example a computer, which has access to the Internet and which permits a data exchange with service control function S of intelligent network 1, possibly via further components which are not shown (for example SMF). Moreover, service switching function 4 is connected with service control function S via an INAP interface.

[0034] Service control function S has access to code server C via an API interface or via a logically equivalent communications protocol. Because of this, requests such as "translateCaller ID()" and "translateCode()" which basically means "translate the permanent identifier of the caller indicated in brackets" and "translate the anonymous identifier" can be routed to code server C.

[0035] For instance, if user U of subscriber line B wants to place a newspaper advertisement 5 without thereby publishing his/her telephone number in connection with the advertised object, he/she can request the assignment of an anonymous identifier via terminal T and the Internet which is not shown. For this purpose, he/she is provided by service control function S or an interposed component with an input mask via which he/she enters his/her own call

number and the request to be provided with an anonymous identifier. Service control function F forwards this request to the code server. Provided that no code has been stored yet for this subscriber line B and that no other reasons exist for refusing an anonymous identifier, such an anonymous identifier is generated and communicated to user U via his/her terminal T. The user can then make the code known in the newspaper advertisement or another publication.

[0036] For instance, if the user of subscriber line A wants to get into contact with the advertiser, he/she dials the code indicated in the advertisement. The code includes a dialing prefix (for example 0151) from which switching center V (Fig. 1) recognizes that this is an anonymous identifier. Therefore, service switching function 4 inquires of code server C via service control function S which permanent identifier is assigned to this anonymous identifier and receives in response the permanent identifier which is then routed to the switching unit for establishing the connection to subscriber line B.

[0037] Fig. 2 shows the procedure for assigning an anonymous identifier. Initially, request AN for an anonymous identifier is transmitted from terminal T to service control function S which returns a mask to the terminal into which user U enters his/her permanent subscriber number PKB (that is the call number of subscriber line B). The subscriber number reaches code server C via service control function S, the code server generating an anonymous subscriber number AKB of subscriber line B and returning it to terminal T via S.

[0038] Fig. 3 depicts the establishment of a connection from subscriber A to subscriber B with the assistance of anonymous identifier AKB. To this end, the anonymous identifier AKB is initially dialed by subscriber A and thus routed to switching center V which, after recognizing that this is an anonymous identifier, queries the permanent identifier from code server C, as described above. Subsequently, the connection establishment is completed so that the call reaches subscriber line B.

[0039] The configuration shown in Fig. 4 is similar to that according to Fig. 1; however,

subscriber B not being allocated a separate terminal. A configuration of that kind can, on one hand, be used to request the assignment of the anonymous identifier over the telephone of subscriber B via suitable data transmission types so that subscriber B can make known a code, similarly as in Fig. 1. On the other hand, the configuration according to Fig. 4 can also be used to anonymize the identifier of subscriber B for certain conversations, which will be explained in the following with reference to Figures 5 and 6.

[0040] When destination subscriber B calls later the initiating subscriber A, then the connection request of destination subscriber B is transmitted (H1) to connected switching center V via the layer 3 protocol DSS1 of the ISDN network as shown in Fig. 5. To activate the code service, destination subscriber B places a prefix (for example 0150) before the call number of initiating subscriber A. Thereupon, at H2, switching center V sends a request to service control function S via service switching function 4 under the INAP protocol. The dialed call number of initiating subscriber A is partially input along with the request at H2 as an argument. Then, at H3, additional digits of initiating subscriber A are requested subsequently. At H4, the quantity of subsequently requested digits is transmitted. The call number routed by destination subscriber B at H4 via switching center V at H5 is used at H6 by the service control function to request an anonymous identifier from code server C, the anonymous identifier being transmitted to service control function S at H7 and, at H8, finally to the switching center which, at H9, establishes a connection to initiating subscriber A while transmitting the anonymous identifier of destination subscriber B.

[0041] As shown in Fig. 6, steps R1 through R9 are carried out correspondingly if initiating subscriber A requests a return connection to subscriber B who is unknown to him/her with the aid of the anonymous identifier and of a preceding dialing prefix (for example 0151). At R6, service control function S requests the anonymous identifier to be translated back into the identifier of destination subscriber B. Code server C delivers the identifier of destination subscriber B from its data base, and the connection can be established at R9.

[0042] Fig. 7 shows how a destination subscriber B routes a request to a code server C at

[520.1005]

N1. Code server C converts the identifier of destination subscriber B into an anonymous identifier and, at N2, routes the request, together with the anonymous identifier, to news server N of the news system requested by destination subscriber B where it is published. An initiating subscriber A who logs on to the system at N3 reads the request of destination subscriber B at N4. If initiating subscriber A wants to reply thereto, then he/she, while indicating the anonymous identifier of destination subscriber B, sends his/her answer to code server C at N5 which routes it to destination subscriber B at N6.

[520.1005]

What is claimed is:

1. A method for establishing a connection from an initiating subscriber to a destination subscriber in a telecommunications network without the respective initiating subscriber knowing the permanent identifier of the destination subscriber,
wherein
- an anonymous identifier is assigned to the permanent identifier of the destination subscriber (B) by a confidence instance (S, C),
- for establishing the connection via the initiating subscriber while using the anonymous identifier, the utilized identifier is recognized by the particular active switching center (V) as an anonymous identifier and routed to the confidence instance (S, C),
- the confidence instance (S, C) determines the assigned permanent identifier from the received anonymous identifier and transmits it to the switching center (V),
- the switching center (V) proceeds to establish the connection to the destination subscriber (B) while using the transmitted permanent identifier.

2. The method as recited in Claim 1;
wherein the confidence instance is constituted by a code server (C) in conjunction with a service control function (S) of the telecommunications network which is at least partially designed as an intelligent network (1), and
the routing of the anonymous identifier from the switching center (V) and the transmission of the permanent identifier to the switching center (V) take place via a service switching function of the intelligent network (1).

3. The method as recited in Claim 1;
wherein the anonymous identifier is deleted at a predetermined time after the assignment.

4. The method as recited in one of the preceding Claims,

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wherein the anonymous identifier can be deleted by an input of the destination subscriber.

5. The method as recited in one of the preceding Claims,
wherein a permanent identifier can be assigned only one anonymous identifier at a time.

6. The method as recited in Claim 5;
wherein an authorization check is carried out before the confidence instance assigns the anonymous identifier.

7. The method as recited in one of the Claims 5 or 6,
wherein error messages are output by the confidence instance when an assignment is not possible.

8. The method as recited in one of the preceding Claims,
wherein the request for the assignment of the anonymous identifier and the communication thereof take place over the Internet.

9. The method as recited in one of the Claims 1 through 7,
wherein the request for the assignment of the anonymous identifier and/or the communication thereof take(s) place via data transmission from the destination subscriber via a digital connection.

10. The method as recited in Claim 9;
wherein the digital connection is constituted by the D-channel of the ISDN.

11. The method as recited in one of the Claims 1 through 7,
wherein the request for the assignment of the anonymous identifier and/or the communication thereof take(s) place via data transmission from the destination

subscriber by means of the multifrequency method.

12. The method as recited in one of the Claims 1 through 7,
wherein the request for the assignment of the anonymous identifier and/or the communication thereof take(s) place via data transmission in the form of short messages (SMS).

13. The method as recited in one of the Claims 1 through 7,
wherein the request for the assignment of the anonymous identifier and/or the communication thereof take(s) place via data transmission in the form of electronic mail (E-Mail).

14. The method as recited in one of the Claims 1 through 7,
wherein the request for the assignment of the anonymous identifier and/or the communication thereof take(s) place via voice input and voice output.

15. The method as recited in one of the preceding Claims,
wherein the assignment is requested by an input of the destination subscriber.

16. The method as recited in one of the Claims 1 or 2,
wherein the request for the assignment between the anonymous and the permanent identifiers takes place during the dialing of a permanent identifier of a later initiating subscriber by the destination subscriber,
and the anonymous identifier is transmitted to the later initiating subscriber.

17. The method as recited in Claim 16 for establishing a return connection after the termination of a connection to the initiating subscriber started by the destination subscriber, wherein the anonymous identifier is converted by the confidence instance (S, C) into the permanent identifier of the destination subscriber (B) on request (R1) of the initiating subscriber, and the return connection to the destination subscriber (B)

is established (R9) while using the permanent identifier.

18. The method as recited in Claim 17,
wherein the anonymous identifier assigned to the destination subscriber (B) is generated anew for each connection establishment to a later initiating subscriber.

19. The method as recited in one of the preceding Claims,
wherein when a return call is established using the anonymous identifier, the destination subscriber (B) is informed of this fact by a perceivable signaling.

20. The method as recited in Claim 19,
wherein a connection requested by the initiating subscriber (A) is automatically established from the destination subscriber (b) upon completion of the signaling after the destination subscriber has confirmed that a connection is to be established, the connection being automatically effected from the destination subscriber (B) to the initiating subscriber (A).

21. The method as recited in one of the Claims 17 through 20,
wherein the permanent identifier is transmitted (H6) to a code server (C) linked to the network,
the code server (C) converts the permanent identifier into a free anonymous identifier and stores the anonymous identifier for the period of validity thereof with the permanent identifier being assigned thereto, and
the code server outputs (H7) the anonymous identifier which is transmitted to the initiating subscriber.

22. The method as recited in Claim 21,
wherein the anonymous identifier is transmitted (R6) to the code server (C),
and the code server (C), by way of the stored assignments, retrieves and outputs (R7) the permanent identifier.

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23. The method as recited in Claim 17,
wherein the permanent identifier of the destination subscriber (B) is routed to a service control function (S) by the switching center (V) of the telecommunications network (1);
the service control function (S) obtains (H6) an anonymous identifier from a code server (C) while indicating the identifier of the destination subscriber (B);
the code server (C) converts the identifier into a free anonymous identifier and stores the anonymous identifier for the period of validity thereof with the permanent identifier being assigned thereto and outputs the anonymous identifier to the service control function;
the service control function (S) routes the anonymous identifier to the switching center (V);
and the switching center (V) establishes the connection with the called initiating subscriber (A) while indicating (H9) the anonymous identifier.

24. The method as recited in Claim 23,
wherein an identifier which identifies the code server is added to the anonymous identifier.

25. The method as recited in one of the Claims 23 or 24,
wherein for a return call, the anonymous identifier of the destination subscriber (B) is routed to a service control function (S) by an appropriate switching center (V) of the network (1),
the service control function (S) obtains (R6) the permanent identifier of the destination subscriber (B) from the appropriate code server (C) while indicating the anonymous identifier,
the service control function (S) routes this identifier to the switching center (V);
and the switching center (V) establishes (R9) the connection with the destination subscriber (B).

[520.1005]

26. The method as recited in one of the preceding Claims,
wherein the telecommunications network (1) is a circuit-switched network for voice or data transmission,
and the identifiers are telephone numbers.

27. The method as recited in one of the preceding Claims,
wherein the anonymous telephone number includes a dialing prefix for dialing up the confidence instance (S, C).

28. The method as recited in one of the Claims 1 through 25,
wherein the telecommunications network is a network for transmitting data of any kind, including video and audio data and/or textual messages
and the identifiers are user addresses of this network.

Abstract

The invention relates to a method for establishing a connection from an initiating subscriber to a designated subscriber in a telecommunications network without providing the respective initiating subscriber with the permanent identifier of the designated subscriber. The invention provides that an anonymous identifier is assigned by a confidence instance (S, C) to the permanent identifier of the designated subscriber (B). In order to establish the connection via the initiating subscriber while using the anonymous identifier of the active home exchange(V), the utilized identifier is indicated as an anonymous identifier and is routed to the confidence instance (S, C). The confidence instance (S, C) determines the assigned permanent identifier from the routed anonymous identifier and transmits it to the home exchange (V). The home exchange (V) proceeds to establish the connection to the designated subscriber (B) while using the transmitted permanent identifier. An embodiment of the method also serves to transmit an anonymous identifier for a future return call to a called subscriber.

(Fig. 1)

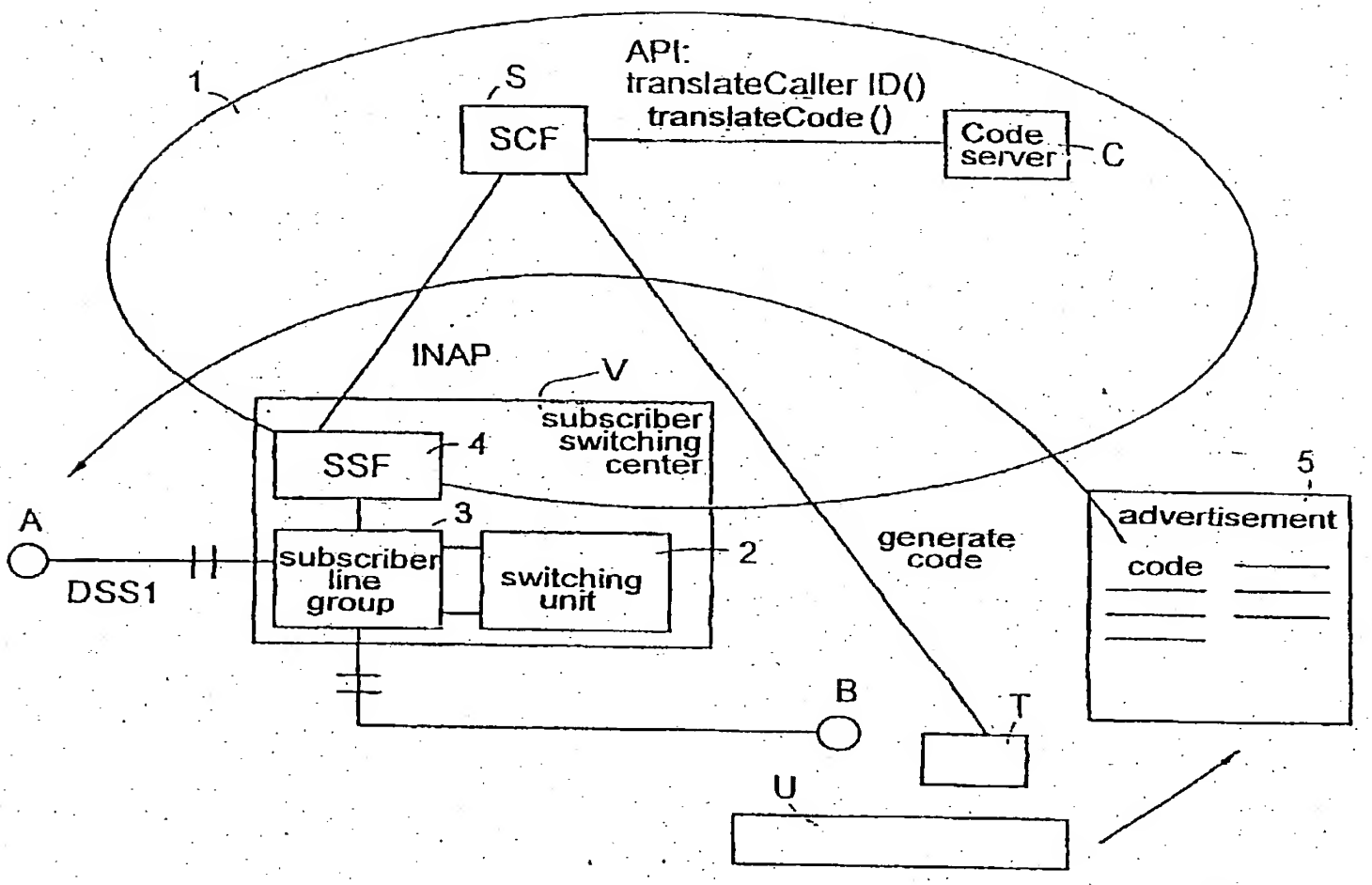
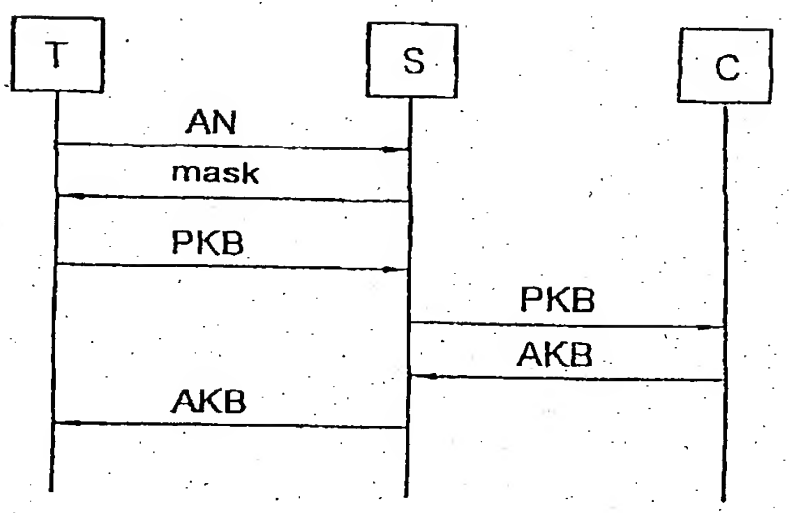

1
S
API:
translateCaller ID()
translateCode ()
SCF
Code server
C
INAP
V
subscriber switching center
SSF
4
A
3
subscriber line group
switching unit
2
DSS1
B
generate code
5
advertisement
code
T
U

Fig.1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S
C
AN
mask
PKB
PKB
AKB
AKB

Fig.2

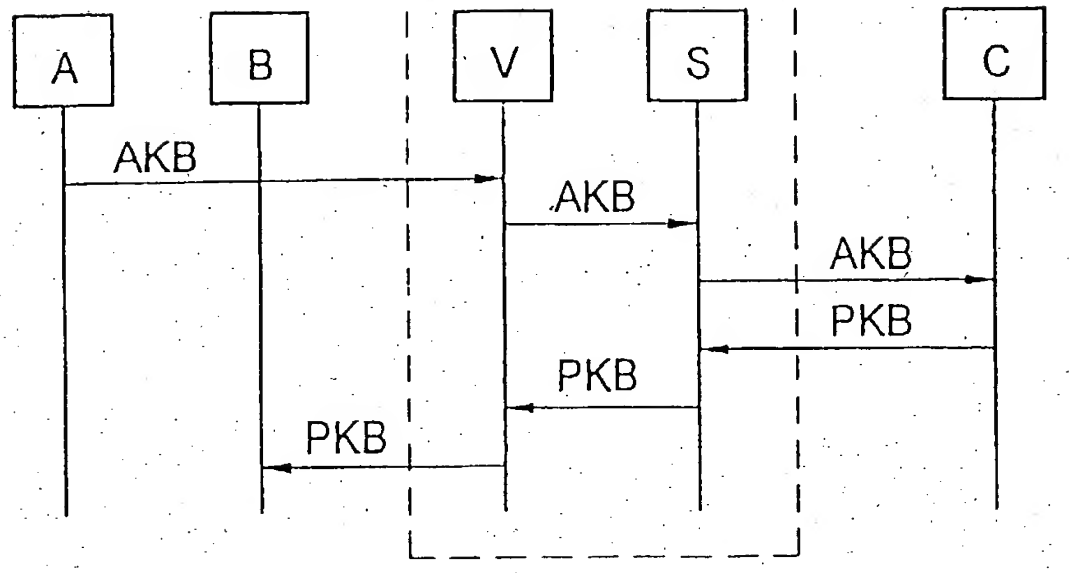

Fig. 3

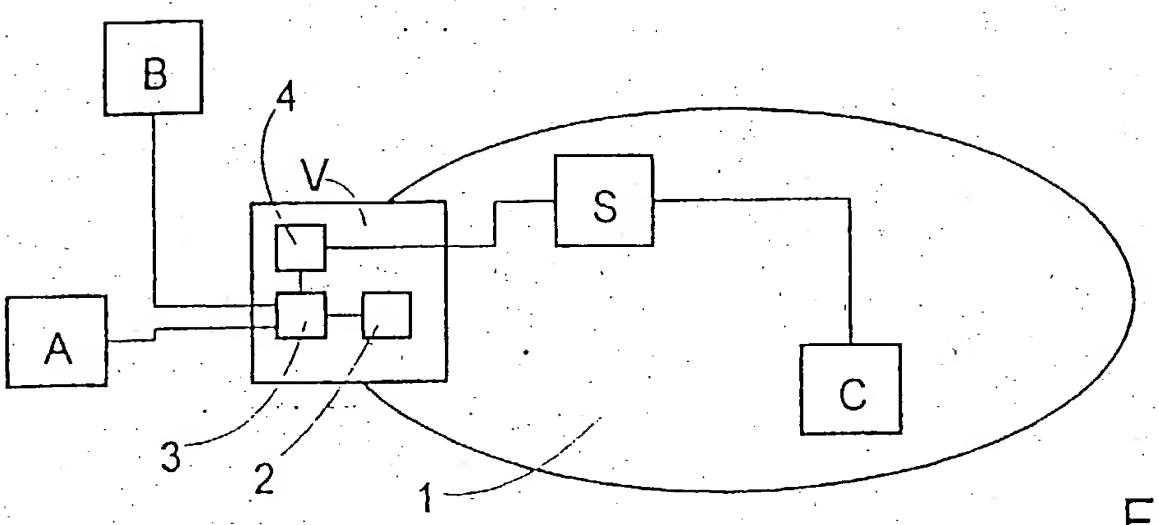

Fig. 4

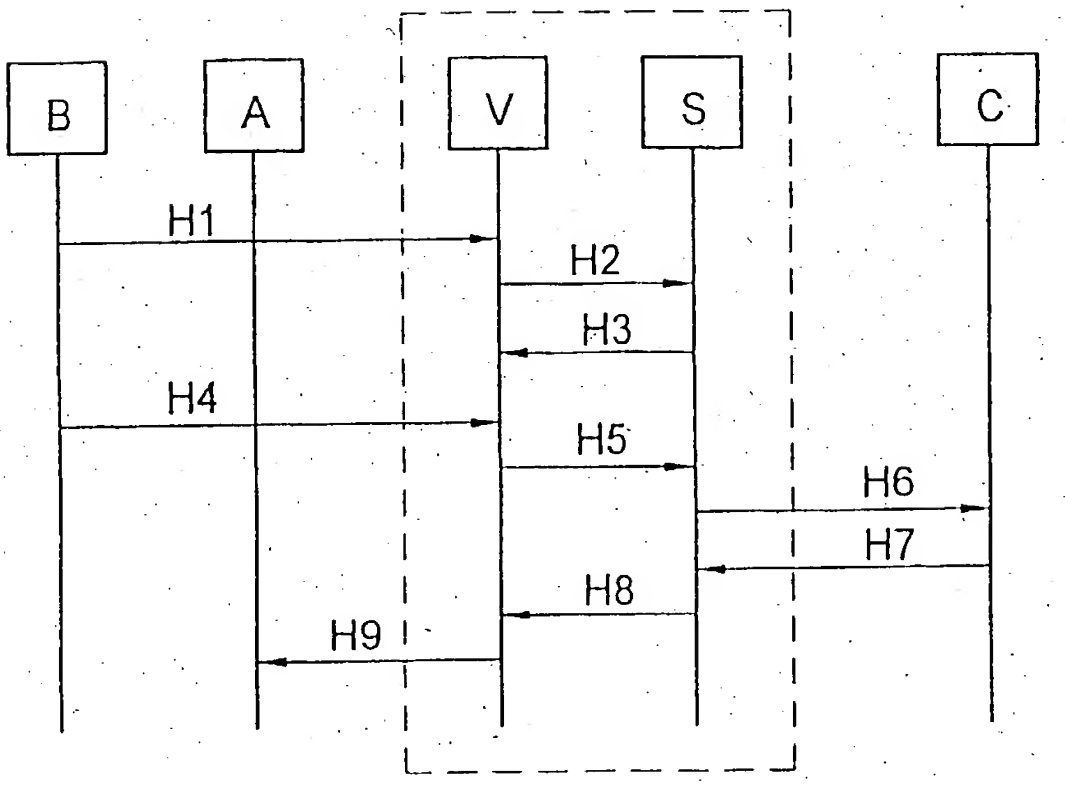

Fig. 5

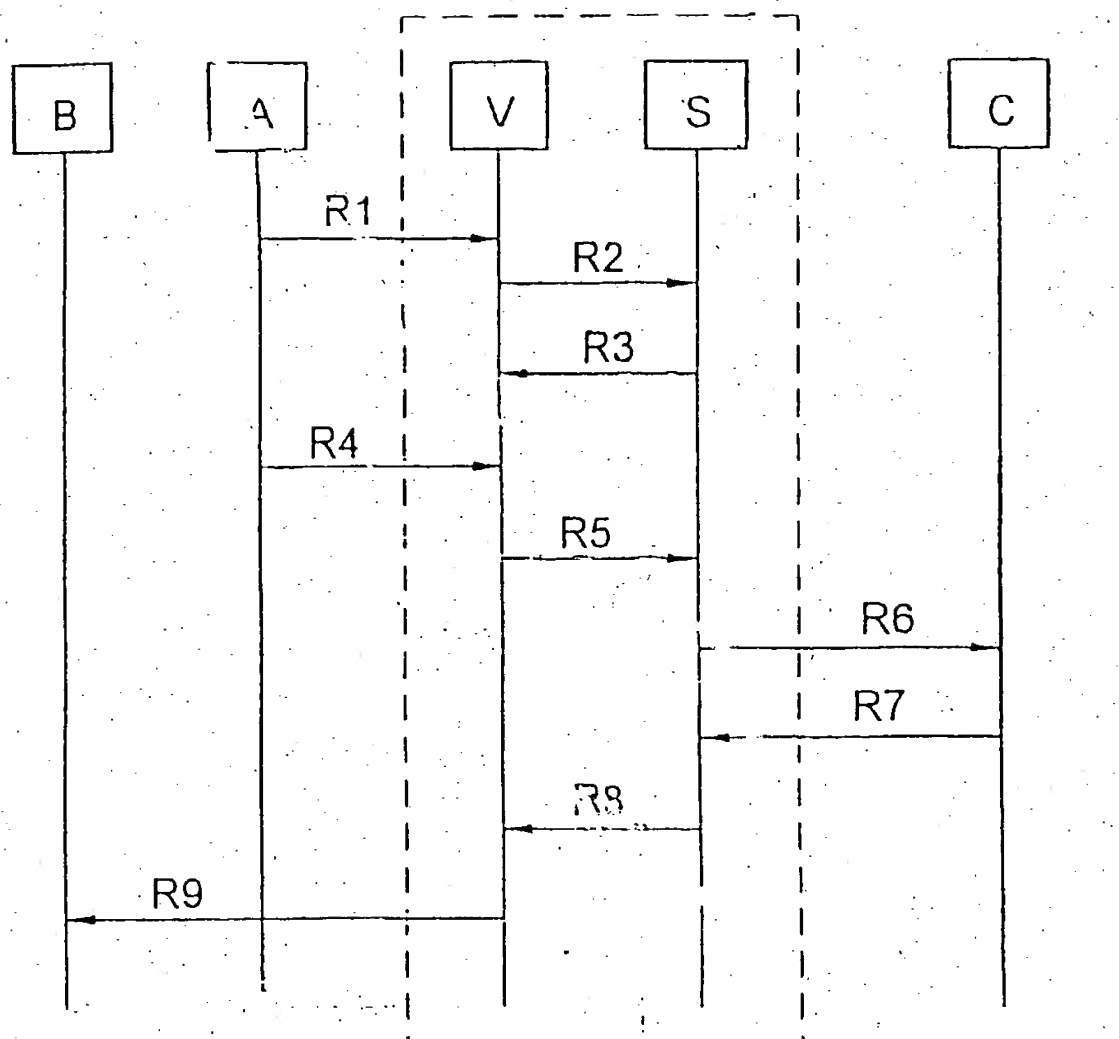

Fig. 6

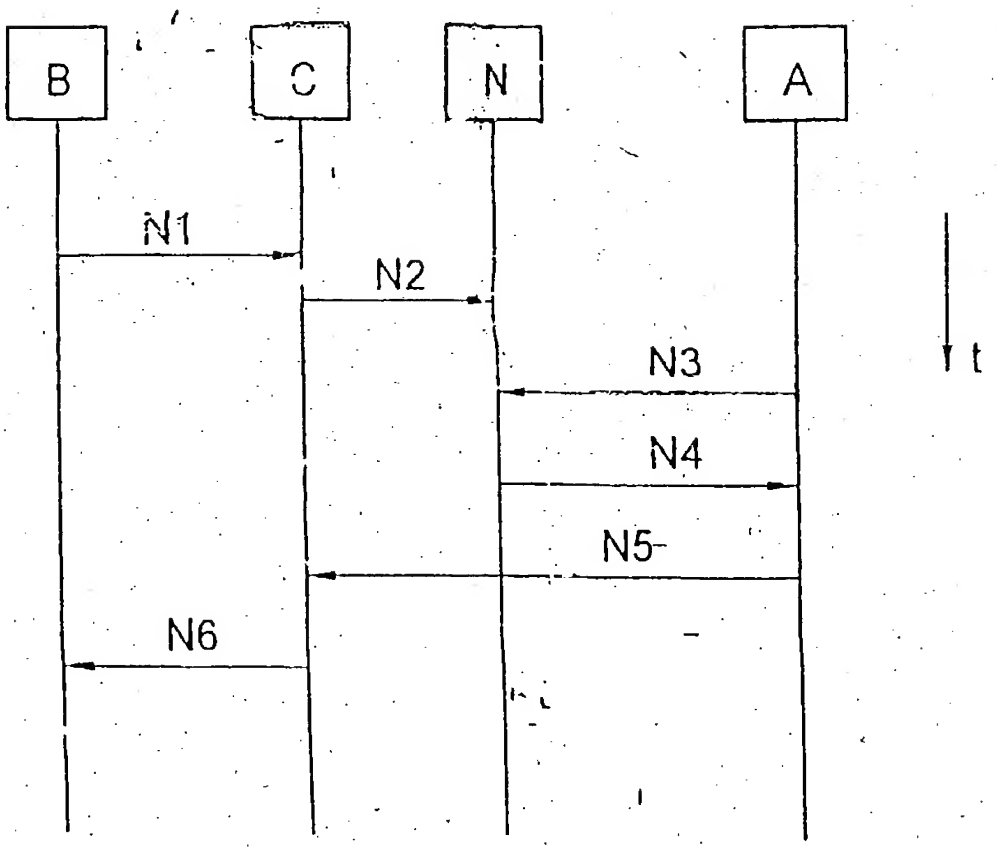

Fig. 7

OCT 16 2002
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DECLARATION AND POWER OF ATTORNEY

Docket No.:520.1005

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled:

METHOD FOR ESTABLISHING A CONNECTION IN A TELECOMMUNICATIONS NETWORK,

the specification of which (check one)

☐ is attached hereto

☒ was filed on May 6, 2000 as International Application Serial No. PCT/EP00/04071 and was amended on

☒ I hereby authorize and request our attorneys, Davidson, Davidson & Kappel, LLC of 485 Seventh Avenue, New York, New York 10018 to insert here in parentheses (application number _____, filed _____) the filing date and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information that is known to me to be material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

DE 199 21 838.2 Number	Germany Country	11 May 1999 Day/Month/Year Filed	Priority claimed ☒ Yes ☐ No
DE 100 07 385.9 Number	Germany Country	18 February 2000 Day/Month/Year Filed	Priority claimed ☒ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial Number	Day/Month/Year Filed	Status
Application Serial Number	Day/Month/Year Filed	Status

And I hereby appoint Clifford M. Davidson, Reg. No. 32,728, Leslye B. Davidson, Reg. No. 38,854, Cary S. Kappel, Reg. No. 36,561, William C. Gehris, Reg. No. 38,156, Morey B. Wildes, Reg. No. 36,968, Robert J. Paradiso, Reg. No. 41,240, Erik R. Swanson, Reg. No. 40,833, Thomas P. Canty, Reg. No. 44,586, Livia S. Boyadjian, Reg. No. 34,781, and all other registered attorneys and agents at Davidson, Davidson & Kappel, LLC, U.S. Patent and Trademark Office Customer Number 23280, my attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith; correspondence address: DAVIDSON, DAVIDSON & KAPPEL, LLC, 485 Seventh Avenue, 14th Floor, New York, New York 10018; Telephone: (212) 736-1940; Fax: (212) 736-2427.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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☒ Additional inventors named on attached sheet(s).

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OCT 16 2002
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DECLARATION AND POWER OF ATTORNEY

10019864 . 101602

Docket No.:520.1005

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Date	
Residence	
Post Office Address	
Citizenship	

Full name of additional Inventor	
Inventor's signature	
Date	
Residence	
Post Office Address	
Citizenship	

Full name of additional Inventor	
Inventor's signature	
Date	
Residence	
Post Office Address	
Citizenship	

Full name of additional Inventor	
Inventor's signature	
Date	
Residence	
Post Office Address	
Citizenship	

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DECLARATION AND POWER OF ATTORNEY

Docket No.:520.1005

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled:

METHOD FOR ESTABLISHING A CONNECTION IN A TELECOMMUNICATIONS NETWORK,

the specification of which (check one)

☐ is attached hereto

☒ was filed on May 6, 2000 as International Application Serial No. PCT/EP00/04071 and was amended on

☒ I hereby authorize and request our attorneys, Davidson, Davidson & Kappel, LLC of 485 Seventh Avenue, New York, New York 10018 to insert here in parentheses (application number _____, filed _____) the filing date and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information that is known to me to be material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

DE 199 21 838.2 Number	Germany Country	11 May 1999 Day/Month/Year Filed	Priority claimed ☒ Yes ☐ No
DE 100 07 385.9 Number	Germany Country	18 February 2000 Day/Month/Year Filed	Priority claimed ☒ Yes ☐ No

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Full name of sole or first Inventor	Ulrich BITTROFF 2-00
Inventor's signature	
Date	
Residence	Rossdorf, Germany
Post Office Address	Voesendorfring 34 64380 Rossdorf, Germany
Citizenship	German

Full name of additional Inventor	Laetitia BOETSELAARS
Inventor's signature	X Boetselaars
Date	27. 10. 2001
Residence	Darmstadt, Germany DE X
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Citizenship	German

☒ Additional inventors named on attached sheet(s).

OIPE JC11
OCT 16 2002
PATENT & TRADEMARK OFFICE

DECLARATION AND POWER OF ATTORNEY

10019864 - 101602

Docket No.:520.1005

Full name of additional Inventor	Uwe HERZOG
Inventor's signature	
Date	
Residence	Heidelberg, Germany
Post Office Address	Susanne-Pfisterer-Strasse 6 69124 Heidelberg, Germany
Citizenship	German

Full name of additional Inventor	Christof LORANG
Inventor's signature	
Date	
Residence	Gross-Zimmern, Germany
Post Office Address	Biergasse 7 64846 Gross-Zimmern, Germany
Citizenship	German

Full name of additional Inventor	Carla CAPELLMANN
Inventor's signature	
Date	
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TRADEMARK OFFICE

10019964 . 101602 P9920305

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Docket No.:520.1005

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METHOD FOR ESTABLISHING A CONNECTION IN A TELECOMMUNICATIONS NETWORK,

the specification of which (check one)

☐ is attached hereto

☒ was filed on May 6, 2000 as International Application Serial No. PCT/EP00/04071 and was amended on

☒ I hereby authorize and request our attorneys, Davidson, Davidson & Kappel, LLC of 485 Seventh Avenue, New York, New York 10018 to insert here in parentheses (application number _____, filed _____) the filing date and application number of said application when known.

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Inventor's signature	
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Post Office Address	Voesendorfring 34 64380 Rossdorf, Germany
Citizenship	German

Full name of additional Inventor	Laetitia BOETSELAARS
Inventor's signature	
Date	
Residence	Darmstadt, Germany
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OIPE JC11
OCT 16 2002
PATENT & TRADEMARK OFFICE

DECLARATION AND POWER OF ATTORNEY

10014964 - 101602

Docket No.:520.1005

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Inventor's signature	X Uwe Herzog
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Full name of additional Inventor	Christof LORANG
Inventor's signature	
Date	
Residence	Gross-Zimmern, Germany
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10019864 . 101602

P992045

DECLARATION AND POWER OF ATTORNEY

Docket No.:520.1005

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the specification of which (check one)

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DECLARATION AND POWER OF ATTORNEY 19864.101602

Docket No.:520.1005

Full name of additional Inventor	Uwe HERZOG
Inventor's signature	
Date	
Residence	Heidelberg, Germany
Post Office Address	Susanne-Pfisterer-Strasse 6 69124 Heidelberg, Germany
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Full name of additional Inventor	Christof LORANG
Inventor's signature	Christof Lorang
Date	26 Octobres 2001
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Post Office Address	Biergasse 7 64846 Gross-Zimmern, Germany
Citizenship	German

Full name of additional Inventor	Carla CAPELLMANN
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Date	
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Inventor's signature	
Date	
Residence	Heidelberg, Germany
Post Office Address	Susanne-Pfisterer-Strasse 6 69124 Heidelberg, Germany
Citizenship	German

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Post Office Address	Biergasse 7 64846 Gross-Zimmern, Germany
Citizenship	German

Full name of additional Inventor	Carla CAPELLMANN
Inventor's signature	X Carla Capellmann
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Residence	Darmstadt, Germany DEX
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Citizenship	German ✓

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10013964 . 101602 P9920305

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☒ Additional inventors named on attached sheet(s).

DECLARATION AND POWER OF ATTORNEY 9864.101602

PATENT & TRADEMARK OFFICE
OCT 16 2002
JC17

Docket No.:520.1005

Full name of additional Inventor	Uwe HERZOG
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Date	
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Post Office Address	Schwarzer Weg 9 64287 Darmstadt, Germany
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Full name of additional Inventor	Heiko DASSOW
Inventor's signature	x
Date	10-25 2001
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